

# Clean Cities International Coalition Development

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U.S. – Mexico Propane Workshop

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# U.S. Clean Cities Program – Celebrating a Decade of Drive

- Currently 81 Active
   Coalitions promoting the use
   of alternative fuels in the
   transportation sector
- 151,000 AFVs/6,000+ AFV stations
- 4,400+ Stakeholders
- 181M gals of petrol. displaced per year
- 32,000 metric tons of emissions reduced per year
- Clean Cities Coalitions cover 58% of U.S. Population . . .

#### **Designated Coalitions**



Goals – 1 million AFVs using 1 billion gallons of alternative fuels and 75% of coalitions self-sustaining by 2010



## Propane Trends in the Clean Cities

- Shift away from conversions need more OEM products
  - Result of environmental regulations affecting conversion kits
  - 1 model of light-duty propane vehicle available from manufactures in model year 2004
- New propane school bus platform
- 19% of AFVs in the Clean Cities are propane
  - 2% growth 2001-2002
  - Schwan's 7,000 propane trucks; stakeholder in many CC coalitions
- 33% of AFV refueling stations are propane



#### Lessons Learned from Clean Cities

- Incentives to encourage purchases are key
- Active fuel suppliers are necessary and should work together
- Drivers & mechanics must be educated to allay safety concerns
- Customers must be vocal about what they want in terms of vehicle types
- Coalitions are important: need strong coordinator
- Niche markets are a must
- Poor technology must be avoided



# Benefits to forming a coalition

- 1. Credibility by having a diverse group of stakeholders striving for the same goal;
- 2. Viability by not being subject to changes in government leadership;
- 3. Ability to provide a greater role by being able to educate elected officials; and
- 4. Reliability by providing manufacturers and equipment suppliers a commitment that a market will built.



# Clean Cities International Program

GOAL: Facilitate exchange of information on the use of alternatives to petroleum fuel in the transport sector and ensure safety and effectiveness of alternative fuel vehicle

programs.

#### **ACTIVITIES:**

- Information Exchange
- Training for Technicians
- Coalition Formation
- Trade Missions and Technology Tours



### Clean Cities International Mexico

- Reverse Trade Mission (11/02)
- Scoping Mission (4/03)
- CC Program Plan Received from Mexico City (10/03)
- Proposal submitted to Inter-American
   Development Bank for Training (10/03)
- Limited CCI funding for Plan Development (FY04)



 CCI Co-sponsorship of Autogas Forum (11/03)



## Clean Cities Border Program

#### Paso del Norte

- Designated in 1995
- 3,310 LPG Vehicles 45 LPG refueling sites
- Boarders Juarez, Mexico

#### Lower Rio Grande Valley

- Approved for Designation
- 266 LPG Vehicles
- 16 LPG stations

#### Laredo/Nuevo Laredo

- Working towards Designation
- 203 LPG Vehicles
- 1 LPG station



## Clean Cities International Roadmap

- For communities outside the U.S. interested in joining the international network
- Guides development of local AFV markets, giving the AFV industry confidence to enter the market
- Members must provide U.S. alternative fuel industry suppliers and manufacturers the opportunity to market their products
- Membership does not guarantee funding
- Members are eligible for assistance
  - Help to identify and secure funding from multinational donors
  - Technical assistance



## 6 Stops on the Road to Clean Cities!

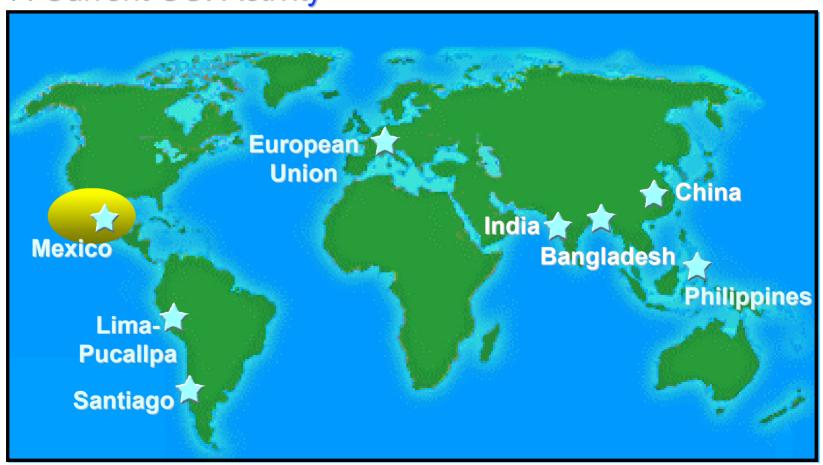
- Form a Coalition and Hold Stakeholder Meetings
- Appoint a Coordinator Serves as Executive Director of the Coalition
- Establish Stakeholder Commitments Individual stakeholders specify their commitments
- Develop a Program Plan Assess current AFV market
- Celebrate Membership
- Implement Program Plan





## Clean Cities Activity Around the World

Current CCI Activity



# Lessons Learned from Bangladesh

The project is heavily funded but the foundation was not laid first.

- Funding received/stations built/vehicles converted
- Stakeholders realized the following
  - No Codes and Standards in place-safety issues may arise
  - No emission testing in place-vehicles not necessarily "clean"
  - No cylinder inspections are in place-safety issues may arise
  - No training for mechanics, converters or station installation-quality of work is poor
  - Equipment purchased was older technology-reliability issues, long fueling lines

The best time to put all of the above in place are *before* the funding is released and there is a frenzy to install equipment.



#### 2004 Clean Cities Conference

#### **American Fuels for American Transportation**

- > Featuring the largest AFV exhibition in the world
- > Presentations made by more than 100 policy experts and product manufacturers
- > Emphasis on developing partnerships with international markets
- > Experts addressing the role of alternative fuels in the transition to a hydrogen economy



**Celebrating a Decade of Drive** 



## **Contact Information**

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www.ccities.doe.gov/international

#### **Partners**

National Alternative Fuels Training Center <a href="http://naftp.nrcce.wvu.edu">http://naftp.nrcce.wvu.edu</a>

Propane Vehicle Association www.propanevehicle.org

Natural Gas Vehicle Institute www.ngvi.com

Gas Technology Institute www.gastechnology.org

International Association of Natural Gas Vehicles <a href="https://www.iangv.org">www.iangv.org</a>

Natural Gas Vehicle Coalition www.ngvc.org

Electric Drive Transportation Association <u>www.evaa.org</u>